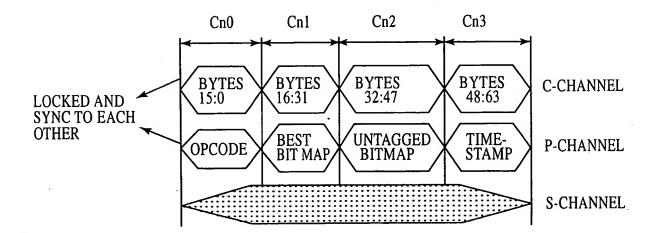


Fig.3



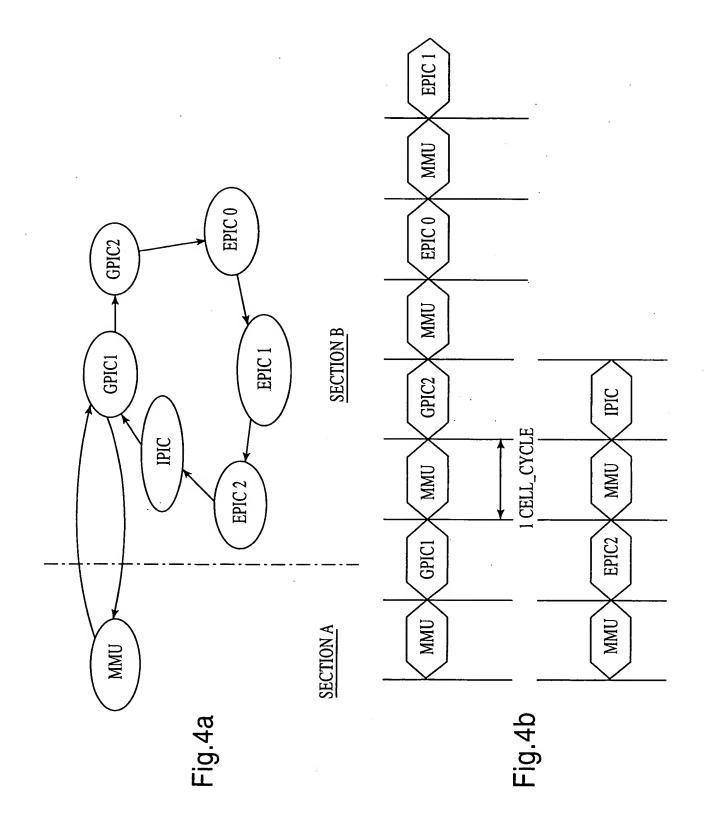


Fig.5

## PROTOCOL CHANNEL MESSAGES

	T 40													_	·
30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
OPC		RESE	NXT	SRC	DEST I	PORT	COS	J	S	E CRC	PC			LEN	-
ODE	IPX	RVED	CELL							•	1 1				
		•					<u> </u>		<del></del>		1	<b>-</b>			
62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
							DULE I	_	1			1 55	1 20	1 0 .	1 32
		·													
30	28	26	24	22	20	18	16	14	12	10	8	6	T 4	2	0
R					1		/ Mc P(						1 '		
<u> </u>			· · · · · · · · ·			<u> </u>	/ IVIC I	NI DI	TIMILI		_				
62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
PF	00	1 30	50			CKSU		-10	M	MT-MC	<del></del>	<del></del>	TGID	MOD	
M				111211	II CIII	CINDU	141		141	WI I-WIC	עועי		עוטו	OPCC	
						-		·· -			_	·	<del></del>		
30	28	26	24	22	20	18	16	14	12	10	8	6	1 4	2	0
U				UNTAC	GGED I	PORTB	ITMAP	/ SRC	PORT	NUMBE	R (bit0.	5)			
<u> </u>									·						
62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
RS	VD	MATO	·/			<del></del>	AN ID			<del></del>	C PORT	L	+	MOTE F	
		FILTE				, 2	111111				CIONI	•	KD	MOILI	·
L		1										<del></del>	<u> </u>		
30	28	26	24	22	20	18	16	14	12	10	8	6	T 4	2	0
				OPCO			10		12		STAMP	<u> </u>		<u> </u>	$\vdash$
L		<del></del>	Cit	OI CO	טנוע	<del></del>				I HVIE	O I WINIT				
62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
R	00	1 20	30	JT	52		PORT E			1 72		٥٥	1 70	J4	1_32
						ւ	LOVI	· IMIA	<u>r</u>						

Fig.6

## SIDE BAND CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14	12	10_	8	6	4	2	0
(	OPCOD	E		T PORT TINATI ' ID		SRC	PORT		Di	ATA LE	EN	F	 EC ODE	COS	С
						P	DDRE	SS	·		···				
							DATA	A							
				<u>,</u> .											

Fig.7

LAYER SEVEN-APPLICATION

LAYER SIX-PRESENTATION

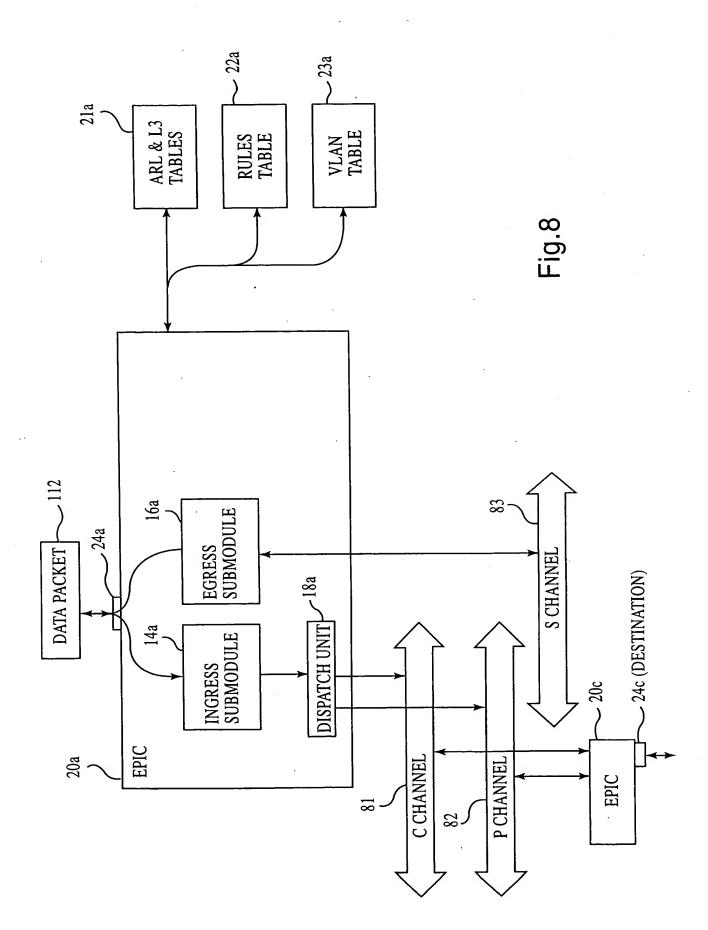
LAYER FIVE-SESSION

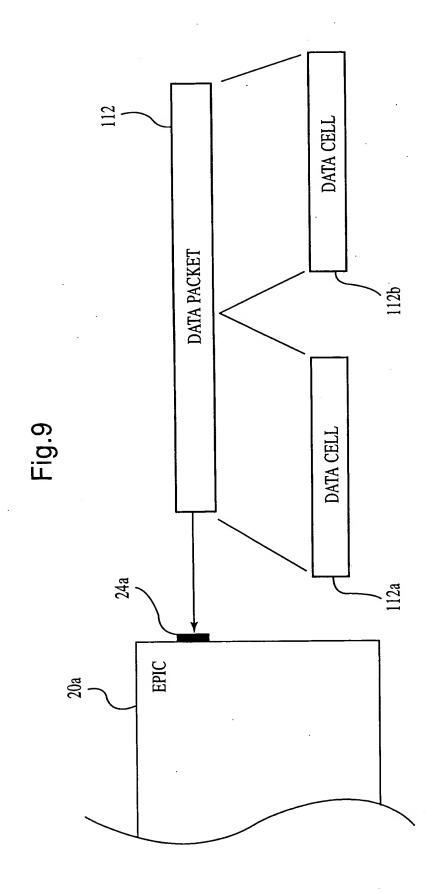
LAYER FOUR-TRANSPORT

LAYER THREE-NETWORK

LAYER TWO-DATA LINK

LAYER ONE-PHYSICAL





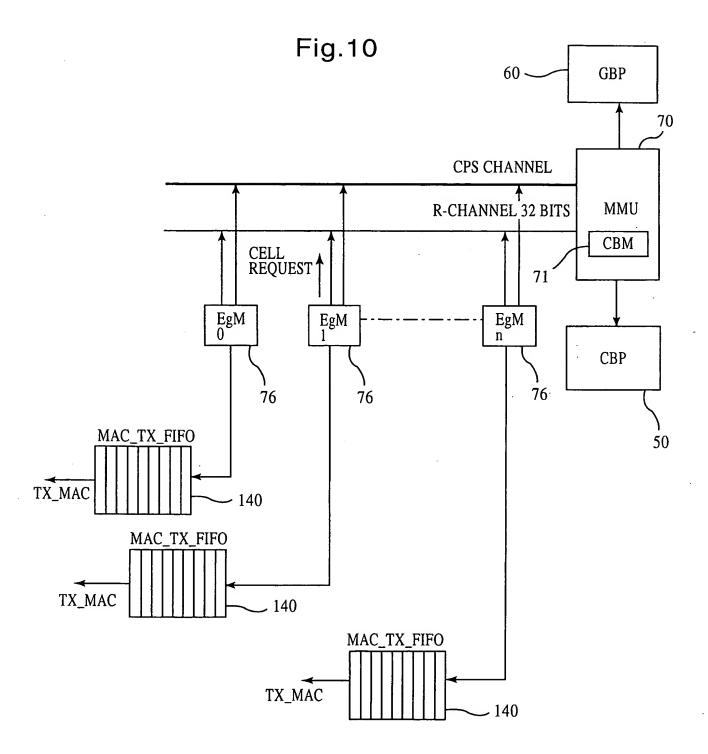
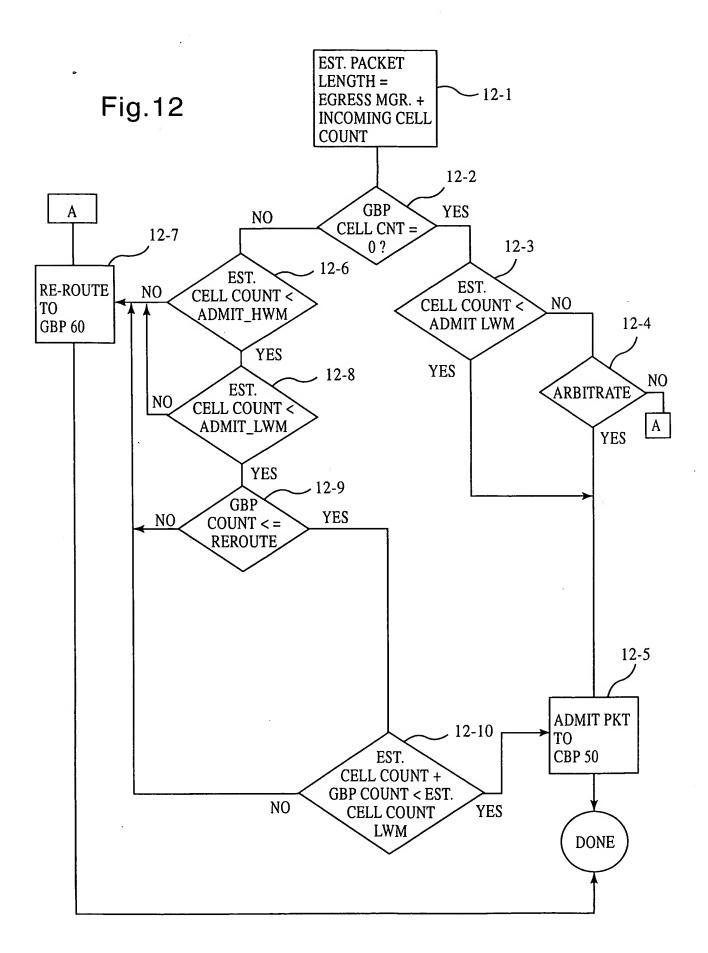


Fig.11

LINE 0 —	FC   LC   BC/MC   Cpy_cnt (5b)   Cell_length (7b)   CRC (2b)   NC_header (16b)   Src Count (6)   IPX   IP     Time_Stamp (14b)   O bits (2b)   P   NextCellLen(2b)   CpuOpcode(4b)   Cell_data (0-9B)
LINE 1	Cell_data (10-27) Bytes
LINE 2 —	Cell_data (28-45) Bytes
LINE 3 —	Cell_data (46-63) Bytes



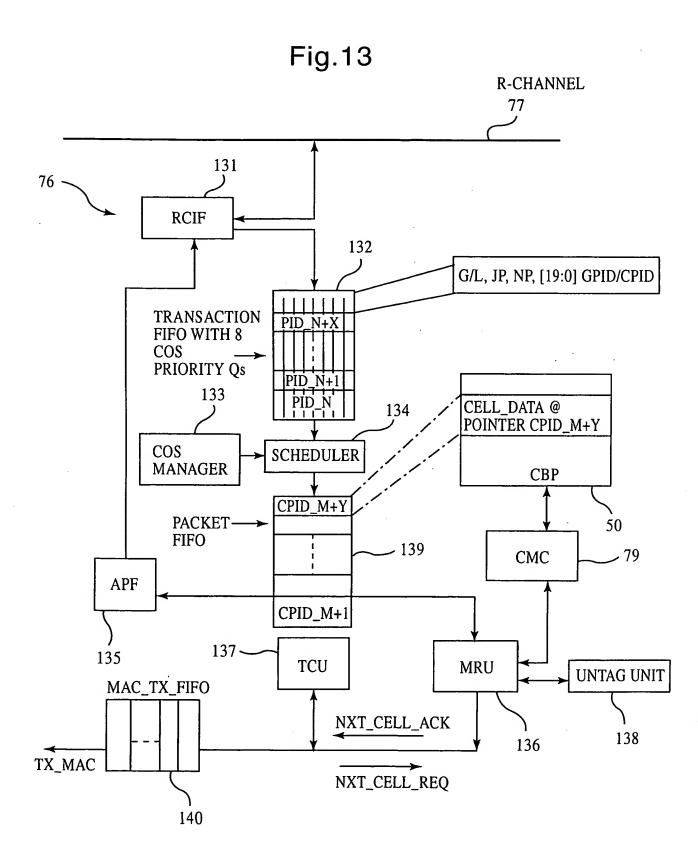


Fig.14

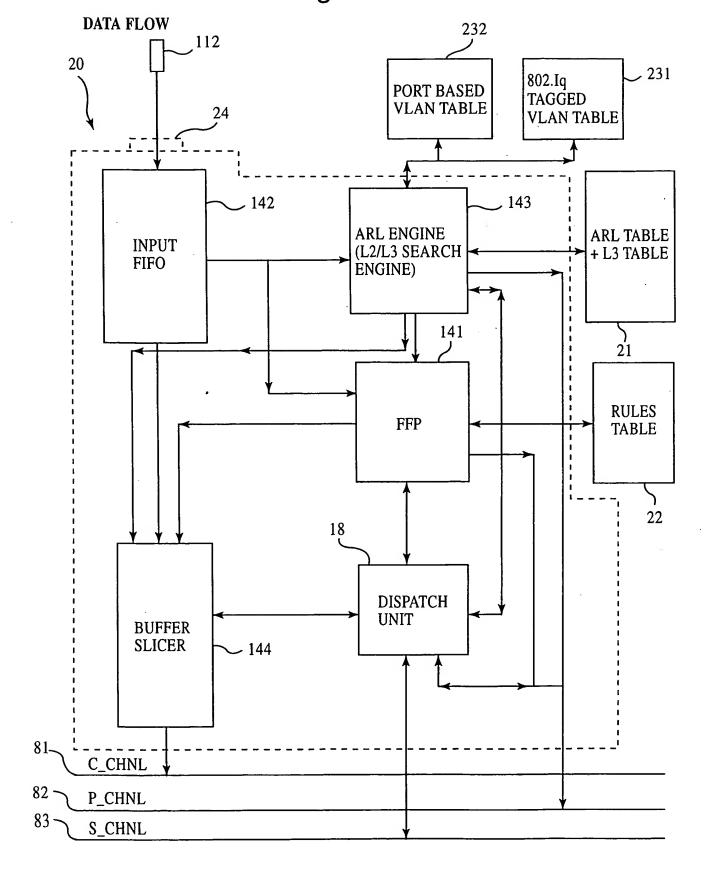
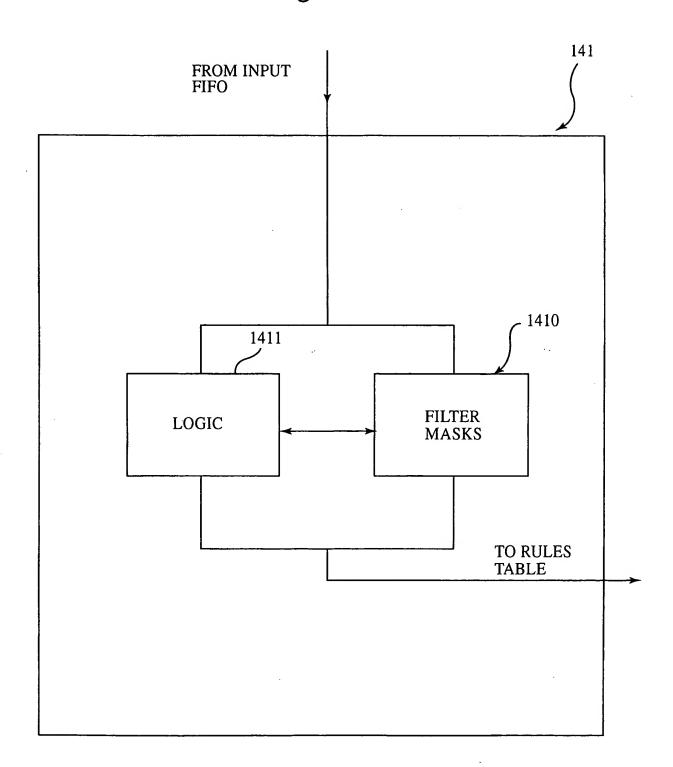
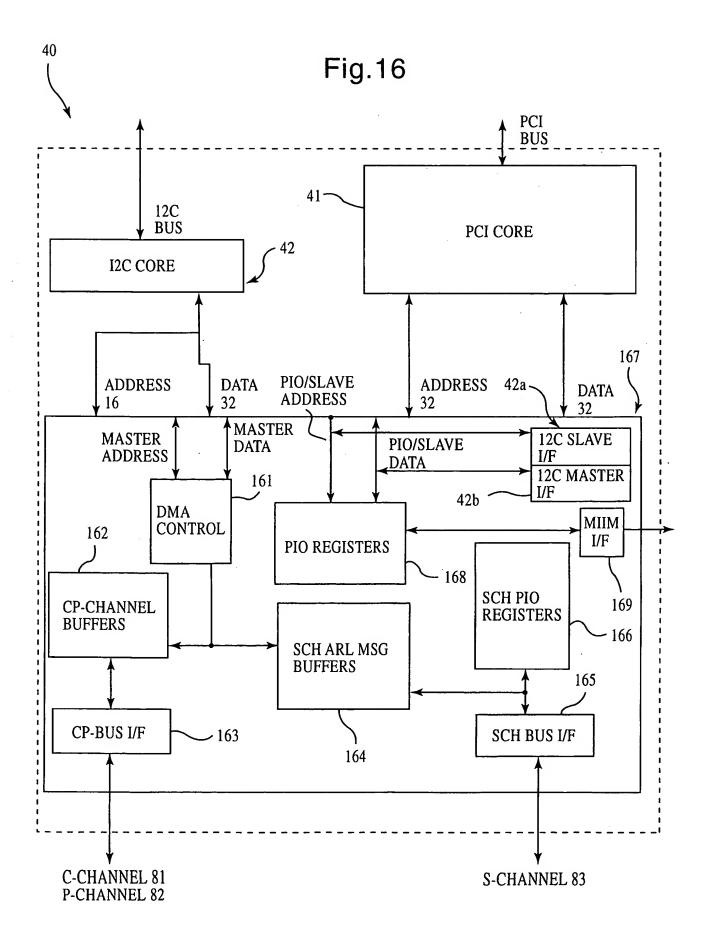
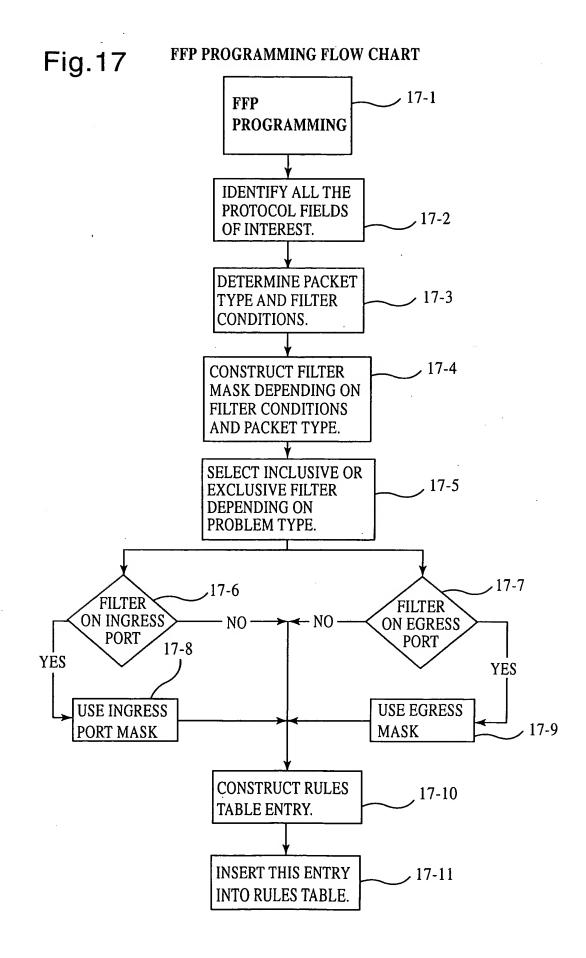
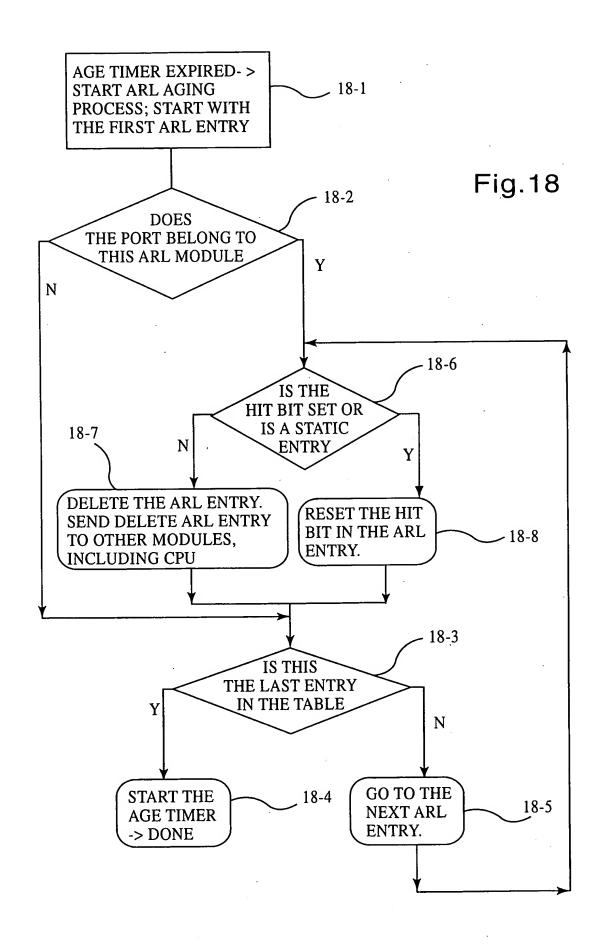


Fig.15









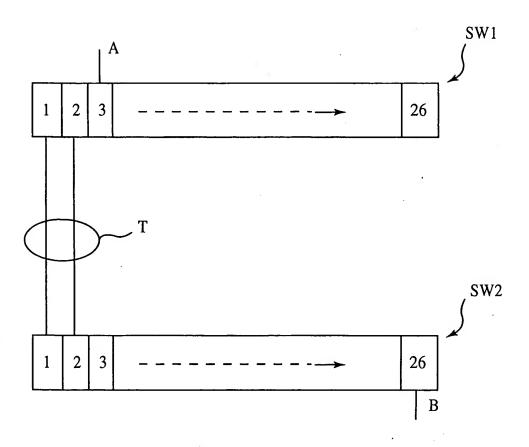


Fig.19

	T	T 91	0.00	0.00	I 6.55	
Field	Header	Size	Offset	Offset	Offset	Offset
		ļ	For Ethernet	For Ethernet	For SNAP	For SNAP
			II Untagged	II Tagged	Untagged	Tagged
Destination Mac Address	Mac	6 Bytes	0	0	0	0
	<del>-</del>	<del></del>	6	6	6	
Source Mac Address	Mac	6 Bytes				6
Protocol Type	Mac	2 Bytes	12	16	20	24
Destination SAP	802.3	1 Byte	NA	NA	14	18
Source SAP	802.3	1 Byte	NA	NA	15	19
802.1p Priority	Mac	3 bits	NA	14	NA	14
VLAN Id	Mac	12 bits	NA	14+4b	NA	14+4b
TOS Precedence	IP	3 bits	15	19	23	27
Differentiated Services	<u>IP</u>	6 bits	15	19	23	27
Source IP Address	IP	4 Bytes	26	30	34	38
Destination IP Address	IP .	4 Bytes	30	34	38	42
Protocol	IP	1 Byte	23	27	31	35
Source Port	TCP/ UDP	2 Bytes	34	38	42	46
Destination Port	TCP/ UDP	2 Bytes	36	40	44	48
TCP Control Flags (For aligning on Byte boundary 2 bits of reserved bits preceding this field is included)	TCP	1 Byte	47	51	55	59
Data at Offset 1	NA	8 Bytes	Data Offset1 From Start of IP / IPX Header	Data Offset1 From Start of IP / IPX Header	Data Offset1 From Start of IP / IPX Header	Data Offset 1 From Start of IP / IPX Header
Data at Offset 2	NA	8 Bytes	Data Offset2 From Start of IP / IPX Header			
Data at Offset 3	NA	8 Bytes	Data Offset3 From Start of IP / IPX Header			
Data at Offset 4	NA	8 Bytes	Data Offset4 From Start of IP / IPX Header			

Fig. 20

## Filter Mask Format:

Filter Enable (1b)	Counter (5b)	Rem Port (1b)	Output Mod (5b)	Output Port (6b)	TOS 1			f Serv (6b)	80	02.1p Prior (3b)
NMA Enb (1b)	No Match Action (10b)	Data Offse 4 (7b)		Data Offset 2 (7b)	Data Offset 1 (7b)	Ingr Port M (61	Mask	Egres ModId N (5b)	1ask	Egress Port Mask (6b)
				Field Mas	sk					

Fig.21a

## Field Mask Format:

Dest Mac addr (6B)	Src Mac addr (6B)	Prot type (2B)	Dest SAP (1B)	Src SAP (1B)	802.1 P Prio (3b)	Vlan Id (12b)	TOS Prec (3b)	Diff Serv (6b)	Src IP addr (4B)	Dest IP addr (4B)	Prot IP- (1B)	Src Port (2B)	Dest Port (2B)
	TCP Cntr Flags Data 1 (8B)			Data 2 (8B)		Data (8B)			ata 4 8B)				

Fig.21b

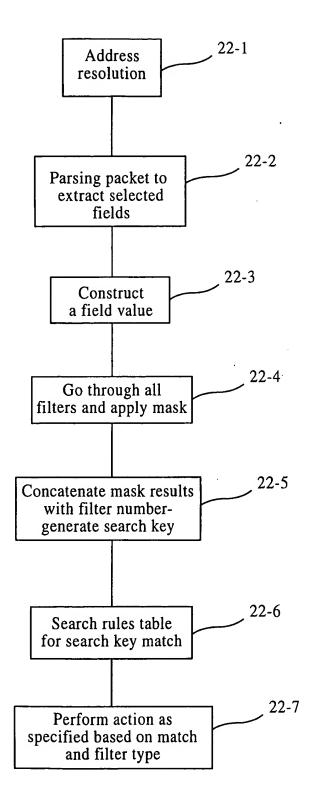


Fig.22

	22 ′
/	

Count er (5b)	Output Mod (5b)	Output Port (6b)	TOS_P (3b)	Diff Services (6b)	802.1p Priority (3b)	Actio ns (11b)	Filter Select (3b)	Ingress Port (6b)	Egrs Mod (5b)	Egrs Port (6b)	Filter Value (512b)

Fig.23

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
	Source IP Address														
				·		Mult	icast I	P Ado	iress						
r							L3 Po	rt Bit	map						
						L3	Modu	le Bit	map						
	-			Uı	nused					T	TTI hresh	_	So	ource I	Port

Fig.24

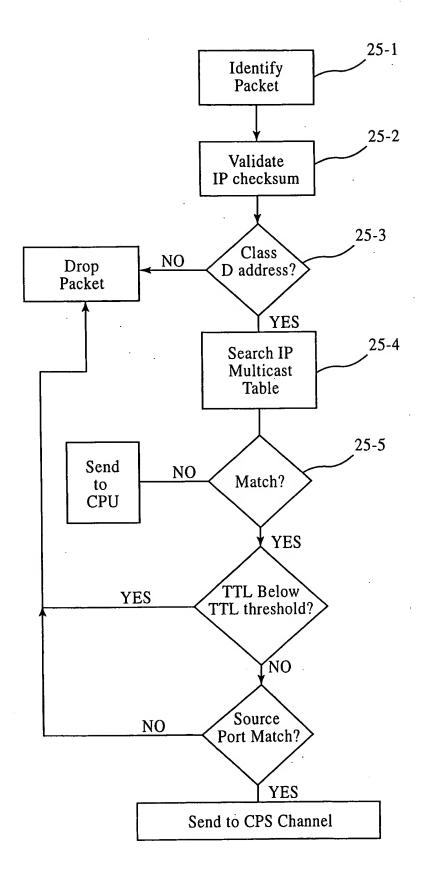
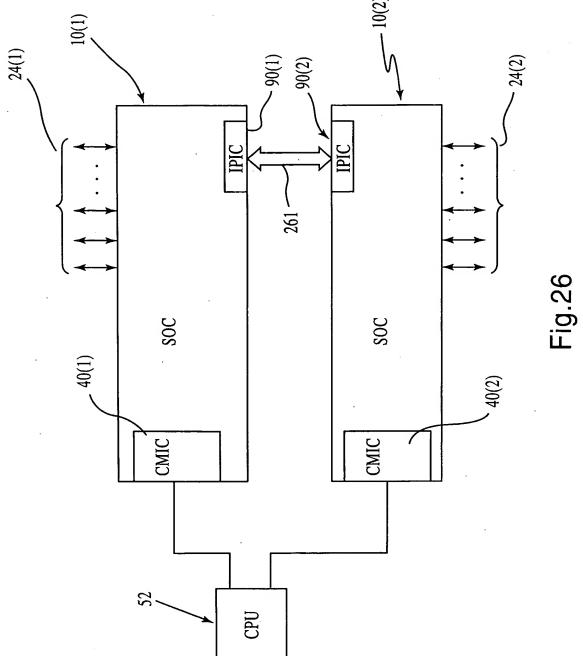
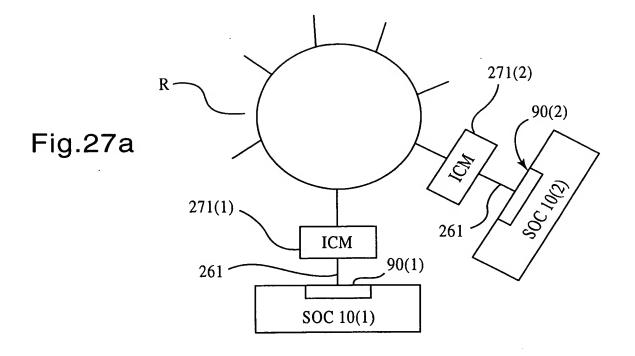
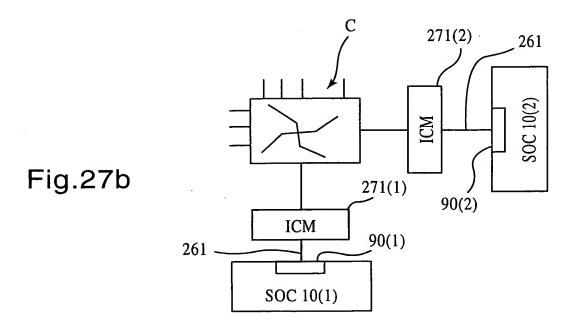
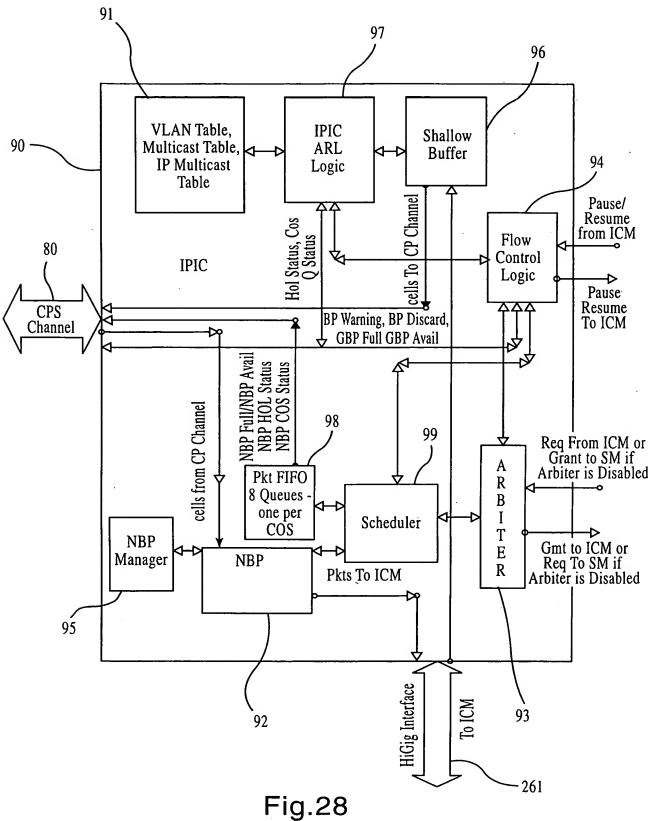


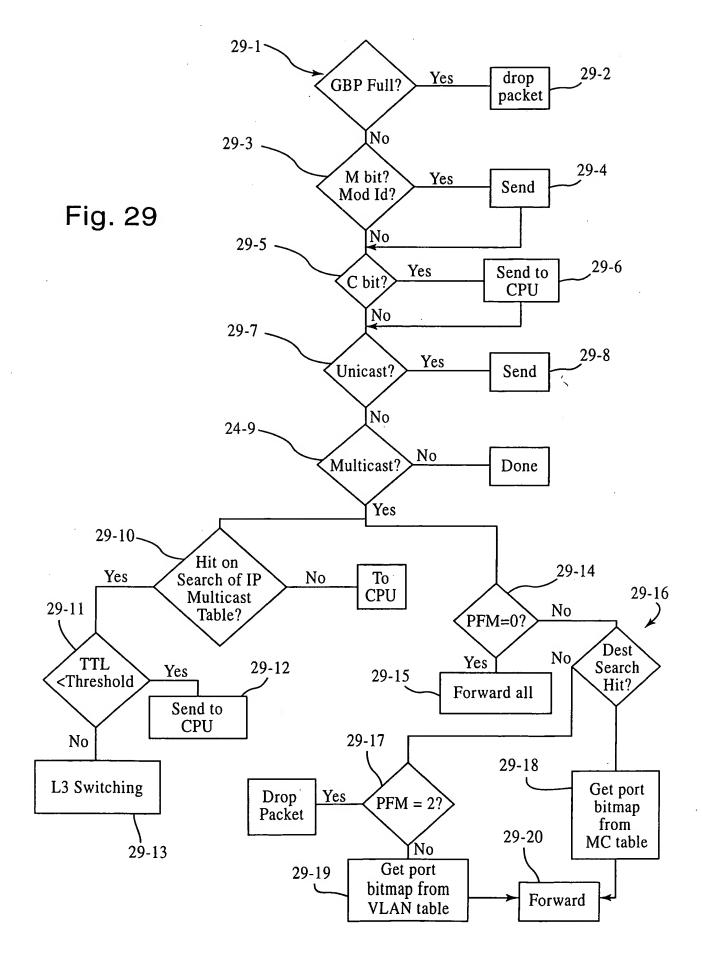
Fig.25









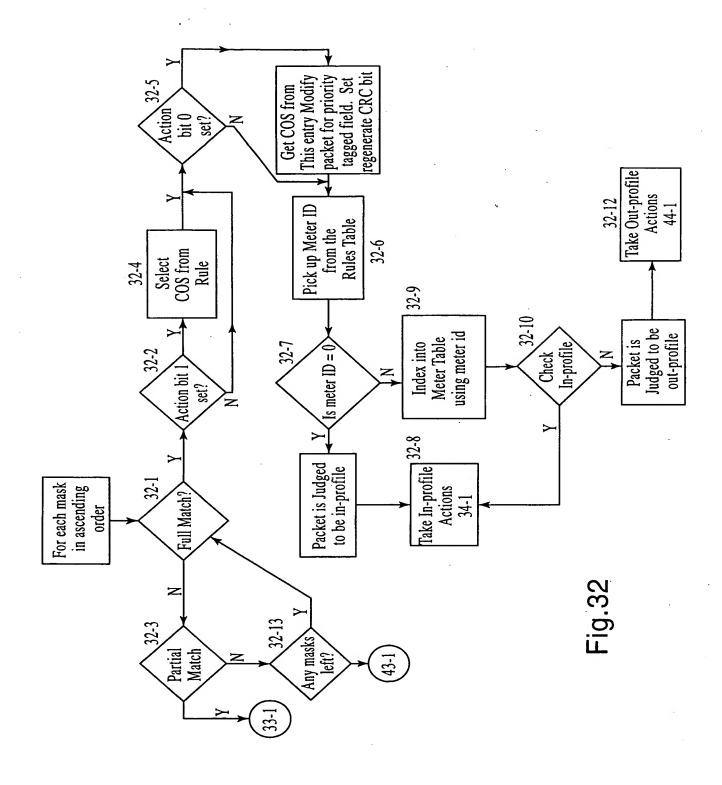


COS Queue (3b)	C P F	NCA (2b)	Priority	Rate Counter (8b)	Rate Counter Threshold (8b)	Threhold	Code	Queue	Priority
----------------------	-------	-------------	----------	-------------------------	--------------------------------------	----------	------	-------	----------

Fig.30

Offset Field	Offset 1	Offset 2	Offset 3	Offset 4
000	0-15	16-31	32-47	48-63
001	8-23	24-39	40-55	56-71
010	16-31	32-47	48-63	64-79
011	24-39	40-55	56-71	72-87
100	32-47	48-63	64-79	80-95
101	40-55	56-71	72-87	88-103
110	48-63	64-79	80-95	96-111
111	56-71	72-87	88-103	104-119

Fig.31



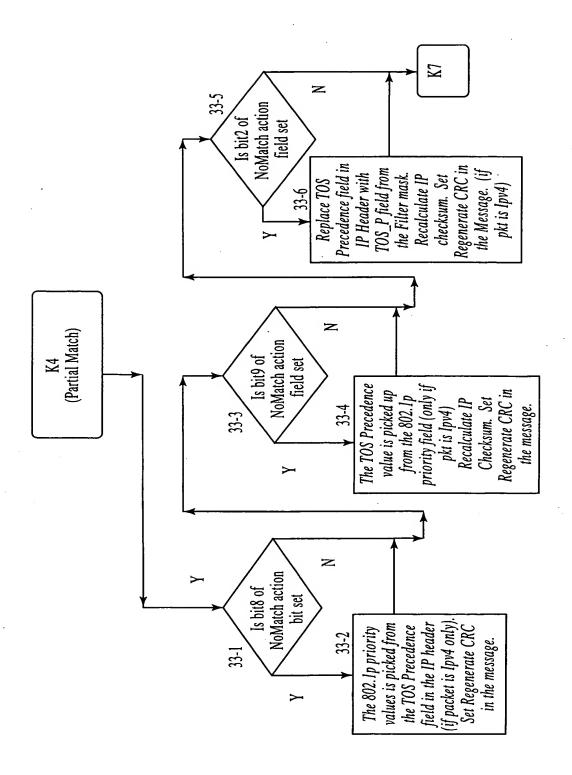


Fig.33

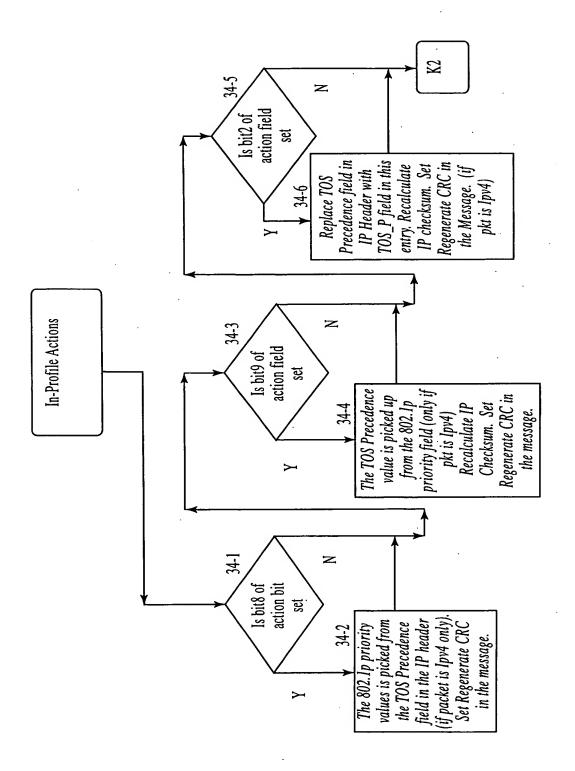


Fig. 34

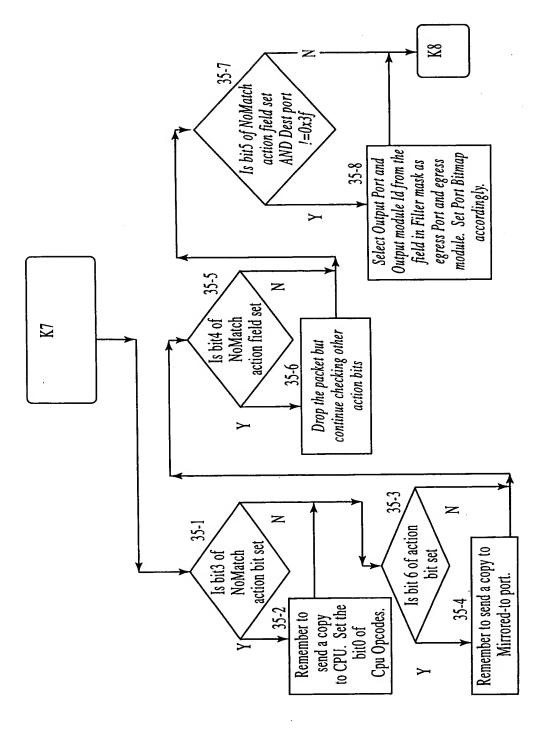


Fig.35

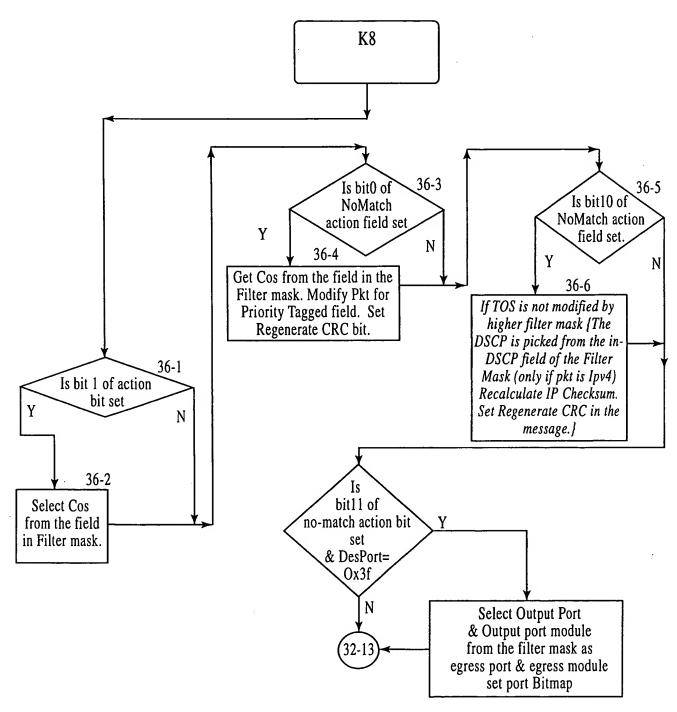
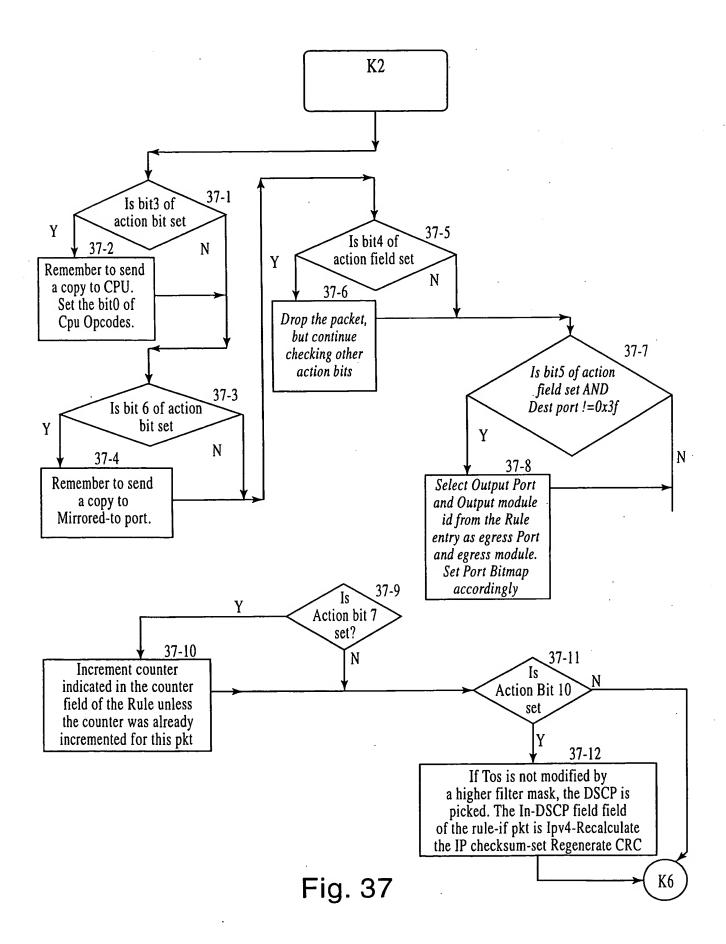


Fig.36



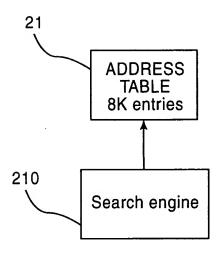


Fig.38

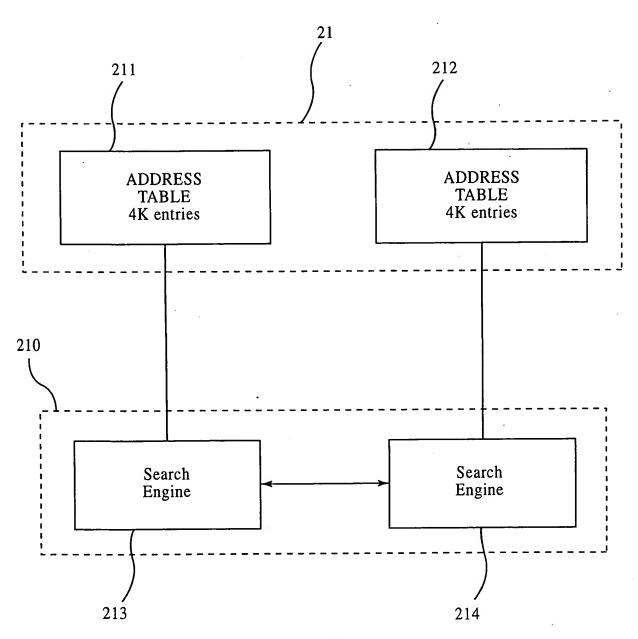


Fig.39

<sub>21</sub> Fig.40a

	2	211 ノ		212 ノ
				/;
addre	ss entry		address	entry
	30 AE 28 AC 26 AA 24 Y 22 W 20 U 18 S 16 Q 14 O 112 M 10 K 8 I 6 G 4 E 2 C 0 A		31 29 27 25 23 21 19 17 15 13 11 9 7 5 3	AF AD AB Z X V T R P N L J H F D B
_; _;				
Fig.40b \(^{21}\)				

Fig.41a

	address	entry
1	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	NN
	30 29	MM LL
	28	KK
	27	JJ
	20 25	CF CF
	24	čc
	23	BE
	22	RC BD
	20	BA
	19	AC
	18	
	16	Y
	15	X
	14	T Y
	i2	Ŝ
	11	R
	9	Ŋ
	8	M
ı	7	L
	5	J A
	4	LL KK JJ GH CF CC BE BD BC AB AA Y X T S R Q N M L K J G E D C B D C B D B C B D B D B D B D D D D
	3	E
	1	C
ĺ	Ó	B

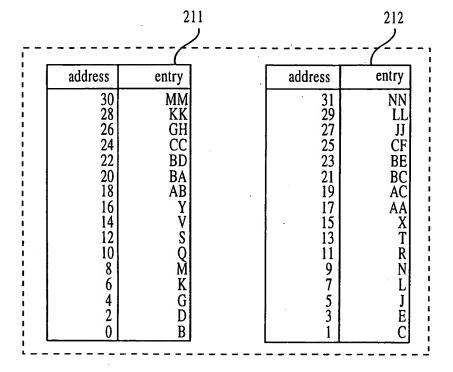


Fig.41b

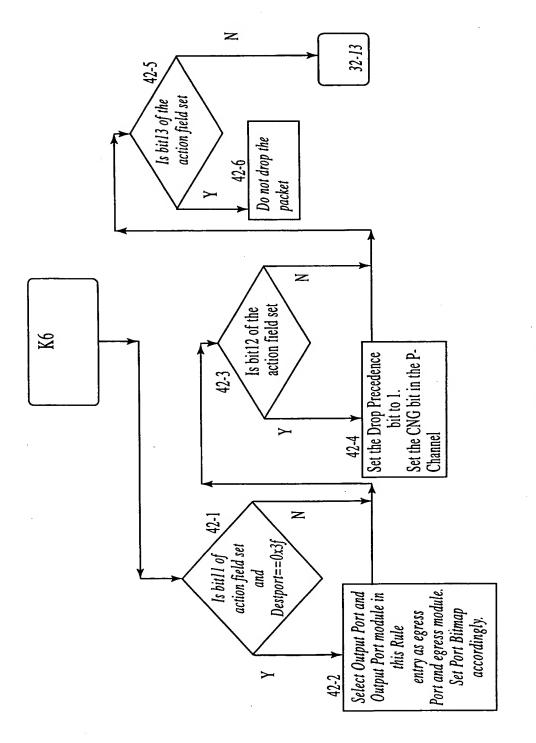


Fig. 42

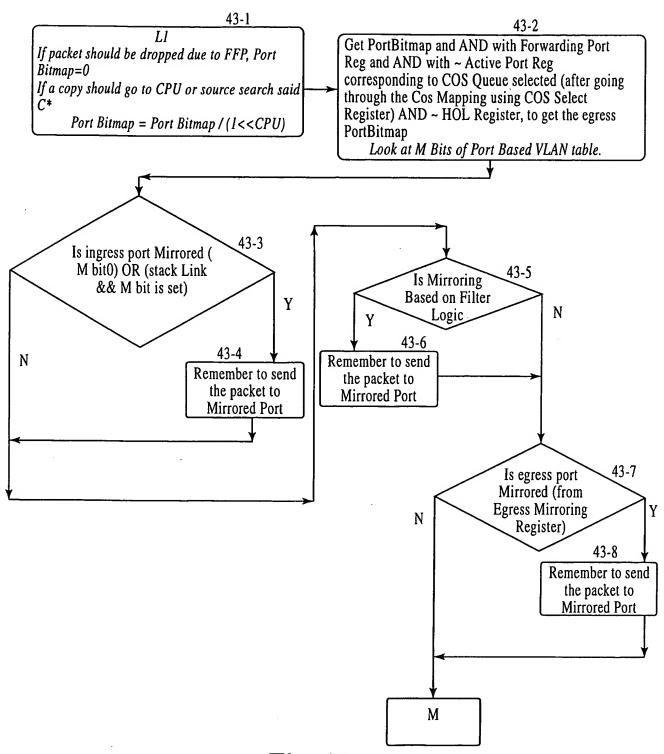


Fig.43

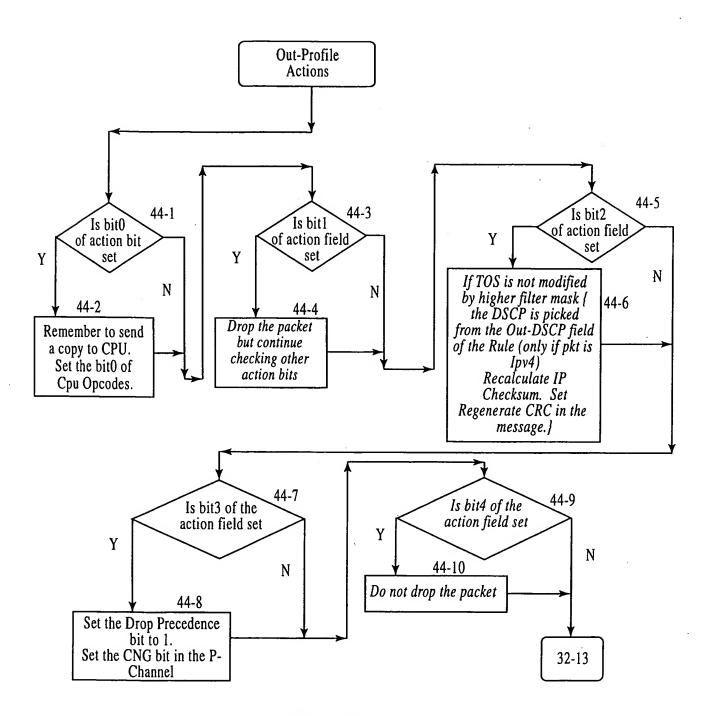


Fig.44

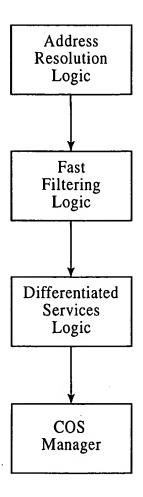


Fig.45

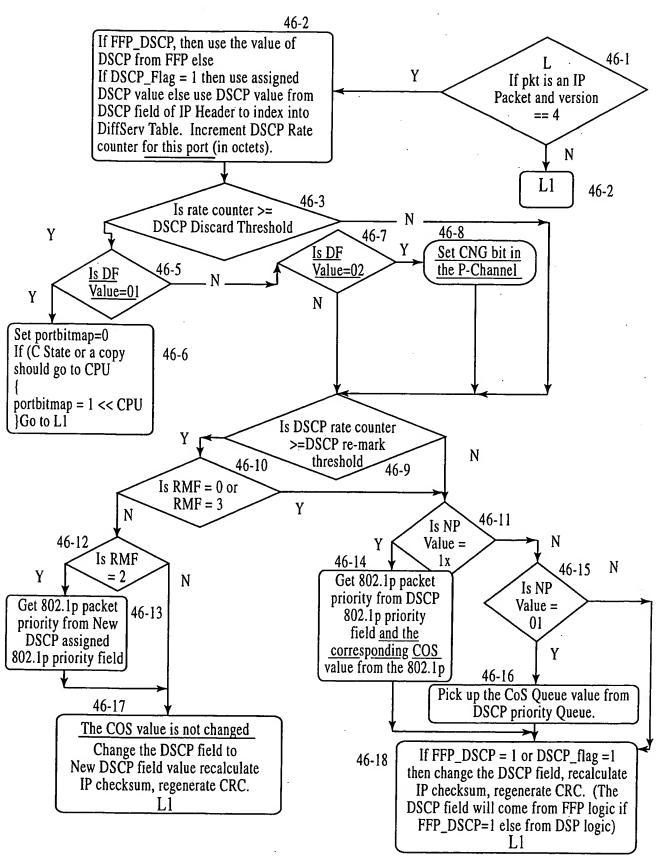


Fig.46

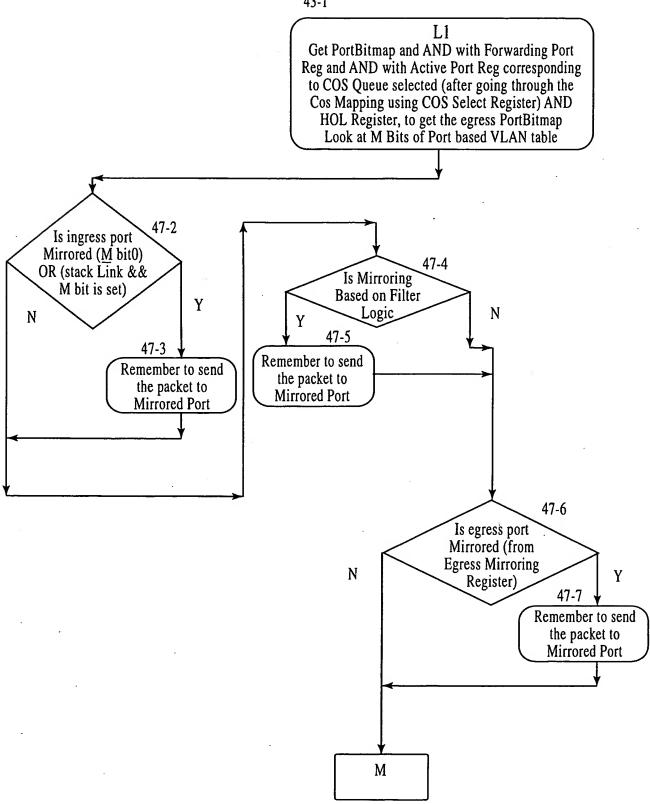


Fig.47